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| | U |  | Document ID | Issue Date | Pages | Title | Current OR |
|---|--------------------------|---|--------------|------------|-------|---|------------|
| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 6009087 A | 19991228 | 170 | Mobile communication system using various multiple access methods | 370/335 |
| 2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5995515 A | 19991130 | 51 | Communication system, base station, mobile station, and radio communication system | 370/465 |
| 3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5991279 A | 19991123 | 26 | Wireless packet data distributed communications system | 370/311 |
| 4 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5987014 A | 19991116 | 9 | Multipath resistant, orthogonal code-division multiple access system | 370/335 |
| 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5966644 A | 19991012 | 27 | Communication system, including transmitting and receiving apparatus using a multi-carrier signal | 455/76 |
| 6 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5914961 A | 19990622 | 11 | Fixed wireless loop system having dual direct synthesizer | 370/503 |

[illegible]

| | U |  | Document ID | Issue Date | Pages | Title | Current OR |
|---|--------------------------|---|--------------|------------|-------|---|------------|
| 7 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5649000 A | 19970715 | 11 | Method and system for providing a different frequency handoff in a CDMA cellular telephone system | 455/436 |
| 8 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | US 5623487 A | 19970422 | 8 | Doubly orthogonal code and frequency division multiple access communication system | 370/342 |

[illegible]

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Document Listing

| Document | Image pages | Text pages | Error pages |
|--------------|-------------|------------|-------------|
| US 5673291 A | 0 | 2 | 0 |
| Total | 0 | 2 | 0 |

DOCUMENT-IDENTIFIER: US 5673291 A

TITLE: Simultaneous demodulation and decoding of a digitally modulated radio signal using known symbols

DEPR:

Referring to FIG. 1, a number of coded symbols to be conveyed to a receiver are marked "U" for unknown and interleaved with a number of known symbols marked "K". The symbols are shown distributed between a number of bursts in an assumed Time Division Multiple Access (TDMA) transmission system, but this is by way of example only, and the invention can be applied equally to continuous (e.g., FDMA or CDMA) as well as burst transmissions.

DEPR:

The I, Q modulation waveforms produced by any of the above methods are applied to a quadrature modulator composed of 90 degree phase splitter 27, balanced modulators 25, 26, combiner 29 and filter 30. This circuit applies the I modulation waveform multiplicatively to a cosine carrier wave at a frequency determined by frequency synthesizer 28 and the Q waveform to a sine carrier at the same frequency. Combiner 29 forms $I \cdot \cos(\omega t) + Q \cdot \sin(\omega t)$ which is the desired modulated waveform, but at an intermediate frequency ω . This is then translated up to the desired transmit frequency using heterodyne mixing in upconverter 31 with a local oscillator signal from synthesizer 28. The local oscillator frequency can be varied by a controller (not

different blocks
and also smoothly controls the power amplifier turn-on and
turn-off by means of
up- and down-ramping of the power level so as to avoid spectral
splatter into
adjacent channels.

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| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Err ors |
|----|------|-----|--------|--|-------|---------------------|----------|--|------------|
| 1 | BRS | L1 | 4602 | frequency adj1 synthesizer | USPAT | 2000/06/05 13:49 | | | 0 |
| 2 | BRS | L2 | 25 | (variable adj1 FREQUENCY ADJ1 SYNTHESIZER) | USPAT | 2000/06/05 13:42 | | | 0 |
| 3 | BRS | L3 | 237 | 1 and cdma | USPAT | 2000/06/05 15:30 | | | 0 |
| 4 | BRS | L4 | 3777 | upconver\$ or (up adj1 conver\$) | USPAT | 2000/06/05 15:32 | | Truncation Overflow. Return string from Server is: 5`0`0`UPC | 1 |
| 5 | BRS | L5 | 100888 | frequency with (select\$ or predetermini\$) | USPAT | 2000/06/05 15:36 | | Truncation Overflow. Return string from Server is: 5`416984` | 1 |
| 6 | BRS | L6 | 1465 | 4 and 5 | USPAT | 2000/06/05 15:36 | | | 0 |
| 7 | BRS | L7 | 173 | 6 and cdma | USPAT | 2000/06/05 16:24 | | | 0 |
| 8 | IS&R | L8 | 1 | ("5375140").PN. | USPAT | 2000/06/05 16:27 | | | 0 |
| 9 | IS&R | L9 | 6 | ((("5103459") or ("5204876") or ("5222100") or ("5235614") or ("5299229") or ("5383219")).PN. | USPAT | 2000/06/05 16:31 | | | 0 |
| 10 | IS&R | L10 | 1 | ("5341396").PN. | USPAT | 2000/06/05 16:31 | | | 0 |